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25X1

M/MS 291/64
1 June 1964
Copy 1

MEMORANDUM FOR: Chief, Manufacturing and Services Division, Construction Branch, ORR

ATTENTION: 25X1

THROUGH: Chief, Requirements Branch, Reconnaissance Group, OGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Mensural Data on USSR Hardened Missile Sites

REFERENCES: (a) Requirement O-RR-4-81,412
(b) CIA/PID Project O 848-64

1. This memorandum is in response to your requirement dated 15 May 1964 which requests mensural data on hardened Soviet MRBM, IRBM and ICBM launch sites. A portion of the data contained in this memorandum was transmitted verbally on 18 May 1964. 25X1

2. All measurements were made on PID on excellent quality photography and the results presented are averages of multiple pointings of the same object by more than one analyst. Although it is extremely difficult to assign a meaningful measure of reliability to any one measurement, it is believed that the horizontal distances presented herein are accurate to within two feet or five percent, whichever is larger. Vertical measurements are probably not as accurate, however, maximum or minimum figures can be derived for some components.

3. The following table presents measurements of the components of the three different hardened Soviet SSM systems being considered in this memorandum. They were derived from KH-7 coverages of Launch Area 40 at Kapustin Yar Missile Test Center, Launch Area D-2 at Tyura Tam Missile Test Center, and Launch Area F at Verkhnaya Salda ICBM Launch Complex.

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SUBJECT: Mensural Data on USSR Hardened Missile Sites [redacted] 25X1

A/ES 291/64

[redacted] 25X1

The attached line drawing graphically illustrates these dimensions.

4. The following measurements were derived from KH-7 coverage of Gramov IRBM Launch Site 3 which was photographed in a mid-stage of construction on Mission 4007. Height measurements are only approximate due to the fact that the shadows of structures being measured do not fall on level ground.

[redacted] 25X1

(b) The hardstand or collar around the silo on which the cover will rest when it is in a closed position measures 110 by 68 feet with a height of [redacted] (The IRBM cover measures 50 by 60 feet.) 25X1

(c) The foundations on which the cover rests when in the open position [redacted] 25X1

(d) The tunnels connecting the control bunker with the silo measure 10 feet wide and at least 10 feet high. These tunnels appear to be constructed out of prefabricated square concrete sections. The top of the tunnel is at least six feet below the top of the silo collar at the point where it enters the silo.

[redacted] 25X1

6. This project is considered to be com[redacted] 25X1

Enclosures:
Line drawing - (CIA/RID/MMB-P-472/64)

[redacted]

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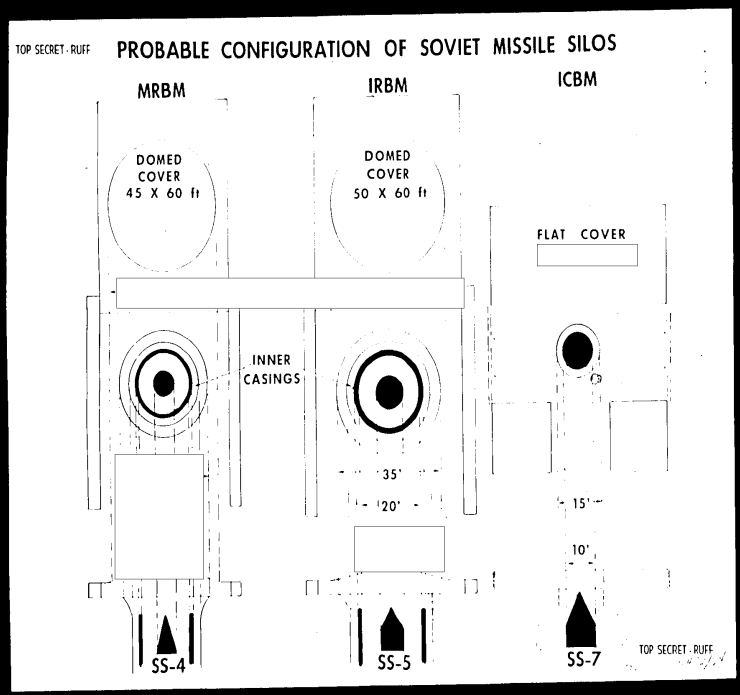
TOP SECRET · RUFF

PROBABLE CONFIGURATION OF SOVIET MISSILE SILOS



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